2009 Consumer Confidence Report

Water System Name:

MD-85, Valeta

Report Date: 6/21/10

We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2009.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.

Type of water source(s) in use: One well drawing from an underground aquifer.

Name & location of source(s): The well, known as Well #1 is located within the Valeta Maintenance District.

Drinking Water Source Assessment information: A source water assessment was conducted for the Valeta well in April 2002. While few contaminating activities were noted and no contaminates exceeding current MCIs were found, the assessment identified septic systems in the area as having potential for outside contamination. A copy of the complete assessment may be viewed at the Madera County Environmental Health Department, by visiting the State's website, www.dhs.ca.gov/ps/ddwem/technicla/dwp/source info source index.htm, or by requesting a summary of the assessment form Environmental Health at (559) 675-7823.

Time and place of regularly scheduled board meetings for public participation: Meetings aer held at 9:00 a.m. each Tuesday, except the fifth Tuesday of any month, at the Board of Supervisors Chambers: 200 W 4th Street, Madera. Visit the County website, www.madera-county.com/supervisors/agenda.html for a copy of the agenda.

For more information, contact: Julio Padilla

Phone: (559) 675-7820

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency (USEPA).

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Variances and Exemptions: Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (ug/L)

ppt: parts per trillion or nanograms per liter (ng/L)

ppq: parts per quadrillion or picogram per liter (pg/L)

pCi/L: picocuries per liter (a measure of radiation)

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- *Microbial contaminants*, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are by-products of industrial
 processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural
 application, and septic systems.
- Radioactive contaminants, that can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the USEPA and the state Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, and 5 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

| TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA | | | | | | | | |
|--|--------------------------------|---|--|-----|------|---|--|--|
| Microbiological Contaminants (complete if bacteria detected) | Highest No. of Detections | No. of months in violation | MCL | | MCLG | Typical Source of Bacteria | | |
| Total Coliform Bacteria | (In a mo.) <u>0</u> | 0 | More than 1 sample in a month with a detection | | 0 | Naturally present in the environment | | |
| Fecal Coliform or E. coli | (In the year) | 0 | A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i> | | 0 | Human and animal fecal waste | | |
| TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER | | | | | | | | |
| Lead and Copper (complete if lead or copper detected in the last sample set) | No. of samples collected | 90 th percentile level detected | No. sites exceeding AL | AL | РНG | Typical Source of Contaminant | | |
| Lead (ppb) 2008 | 5 | <5 | 0 | 15 | 2 | Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits | | |
| Copper (ppm) – 2008 | 5 | 0.036 | 0 | 1.3 | 0.17 | Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives | | |

2009 SWS CCR Form Revised Jan 2010

| | TABLE 3 - | - SAMPLII | NG RESULTS | FOR SOD | IUM AND H | ARDNESS |
|---|----------------|-------------------|------------------------|--------------------|--------------------------|---|
| Chemical or Constituent (and reporting units) | Sample Date | Level Detected | Range of Detections | MCL | PHG (MCLG) | Typical Source of Contaminant |
| Sodium (ppm) | 5/08 | 40.1 | 40.1 | none | none | Salt present in the water and is generally naturally occurring |
| Hardness (ppm) | 5/08 | 376 | 376 | none | none | Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring |
| TABLE 4 – DET | ECTION OI | F CONTAN | MINANTS WI | rh a <u>prin</u> | <u>IARY</u> DRIN | KING WATER STANDARD |
| Chemical or Constituent (and reporting units) | Sample Date | Level Detected | Range of Detections | MCL [MRDL] | PHG (MCLG) [MRDLG] | Typical Source of Contaminant |
| Arsenic (ppb) | 7/05 | 2.4 | 2.4 | 10 | 0.004 | Erosion of natural deposits; runoff from orchards; glass & electronics production wastes |
| Barium (ppm) | 5/08 | 0.43 | 0.43 | 1 | 2 | Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits |
| Chromium (ppb) | 5/08 | 19.2 | 19.2 | 50 | (100) | Discharge from steel and pulp mills and chrome plating; erosion of natural deposits |
| Fluoride (ppm) | 5/08 | 0.1 | 0.1 | 2.0 | 1 | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |
| Gross Alpha (pCi/L) | 5/07 | 5.5 | 5.5 | 15 | (0) | Erosion of natural deposits |
| Nitrate (ppm) | 2009 | 33.7 | 11.9 – 58.5 | 45 | 45 | Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits |
| Uranium (pCi/L) | 5/07 | 9.2 | 9.2 | 20 | .43 | Erosion of natural deposits |
| TABLE 5 – DETE | CTION OF | CONTAM | INANTS WIT | H A <u>SECO</u> | <u>NDARY</u> DR | INKING WATER STANDARD |
| Chemical or Constituent (and reporting units) | Sample Date | Level Detected | Range of Detections | MCL | PHG (MCLG) | Typical Source of Contaminant |
| Chloride (ppm) | 1/09 | 50.5 | 50.5 | 500 | N/A | Runoff/leaching from natural deposits; seawater influence |
| Specific Conductance (micromhos) | 3 & 5/08 | 965 | 960 – 970 | 1600 | N/A | Substances that form ions when in water; seawater influence |
| Sulfate (ppm) | 5/08 | 15,5 | 15.5 | 500 | N/A | Runoff/leaching from natural deposits; industrial wastes |
| Total Dissolved Solids (ppm) | 5/08 | 150 | 150 | 1000 | N/A | Runoff/leaching from natural deposits |
| Turbidity (Units) | 5/08 | 0.3 | 0.3 | 5 | N/A | Soil runoff |
| | TABLE 6 | – DETEC | TION OF UNI | REGULAT | ED CONTAI | MINANTS |
| Chemical or Constituent (and reporting units) | Sample Date | Level Detected | Range of Detections | Notification Level | | Health Effects Language |
| Hexavalent Chromium (ppb) | 3 & 8/05 | 4.15 | | | n/a | n/a |

| Vanadium (ppb) | 3 & 8/05 17.15 | The babies of some pregnant women who drink water containing vanadium in exces of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals. |
|----------------|----------------|---|
|----------------|----------------|---|

^{*}Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

Additional General Information on Drinking Water

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Summary Information for Contaminants Exceeding an MCL, MRDL, or AL, or a Violation of Any Treatment Technique or Monitoring and Reporting Requirement

*We are required to *monitor* your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards.

During the first half of 2009 your water system exceeded the Primary Standard MCL for Nitrates by having levels in excess of 45mg/L. Nitrates are a health risk for infants of less than six months of age. Such nitrate levels in the drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness: symptoms include shortness of breath and blueness of the skin. Nitrate levels above 45 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain enzyme deficiencies. If you are caring for an infant, or are pregnant, you should ask advice from your health care provider.

On May 30, 2010, the only well in the water system went dry. For more than 2 ½ months water was trucked into your district. During this period there were many periods of low water pressure and no water which required a boil water order to be issued. In August deepening of the well was completed and water restored. The lines and system was chlorinated, flushed and sampled. After bacteriological testing proved the water was safe the boil order was lifted. Subsequent monitoring showed a substantial drop in the nitrates levels, well below the MCL. The water quality in the Valeta Water now meets all water quality standards.

We hope you find this report informative and helpful. Please call our office if you have questions. The County of Madera works continuously to provide the best available water to every tap. We ask that you, our customers, help us protect our water sources. Water is the heart of our community, our way of life, and our future.